

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086
(For Candidates admitted during the academic year 2010 - 11)

SUBJECT CODE: ZL/MC/IV14

B.Sc. DEGREE EXAMINATION NOVEMBER 2010
BRANCH VIA. ADVANCED ZOOLOGY AND BIOTECHNOLOGY
FIRST SEMESTER

COURSE : MAJOR CORE
PAPER : INVERTEBRATA
TIME : 3 HOURS

MAX. MARKS: 100

SECTION A

ANSWER ALL QUESTIONS

(10X3=30)

1. Match
 - a) *Leishmania* - Malaria
 - b) *Plasmodium* - Sleeping sickness
 - c) *Trypanosoma* - Vaginitis
 - d) *Trichomonas* - Kala-azar
 - e) *Ancylostoma* - Elephantiasis
 - f) *Wuchereria* - Anemia
2. Give the zoological name:
 - a) Pin worm
 - b) Filarial worm
 - c) Dwarf tape worm
3. Define Polymorphism.
4. Give the function of :
 - a) Radula
 - b) Nematocyst
 - c) Petasma
5. Distinguish between conjugation and endomixis.
6. Draw a neat labeled diagram of parapodium of *Nereis*.
7. What is metamerism?
8. Name the castes of a termite colony.
9. Mention the different types of pedicellaria in *Asterias*.
10. Write any three parasitic adaptive features of *Taenia solium*

SECTION B**ANSWER ANY FIVE QUESTIONS****(5X6=30)**

11. Explain Metagenesis with reference to the life history of *Obelia*.
12. Explain the life cycle of *Plasmodium* in Man.
13. Differentiate between Sycon and Ascon types of Canal systems.
14. Draw and describe the mouth parts of Honey Bee.
15. List out the differences between Neanthes and Heteroneanthes.
16. Describe the cephalotharacic appendages of Prawn
17. Give a brief account of economic importance of Molluscs.

SECTION C**ANSWER ANY TWO QUESTIONS****(2X20=40)**

18. Describe the structure, mode of infection, pathogenicity and life cycle of *Entamoeba histolytica*.
19. Give an account of the structure and affinities of *Peripatus*
20. Giving suitable examples, explain the importance of nematodes in human welfare.
21. Describe the structure and functions of water vascular system in Starfish
